

WEIGHT AND BALANCE DATA

MODEL PA-28-180 CHEROKEE

Airplane Serial Number 28-7505122

Registration Number N33094

Date 1-16-75

AIRPLANE EMPTY WEIGHT

Item	Weight (Lbs)	× C. G. Arm (Inches Aft of Datum)	= Moment (In-Lbs)
*Empty Weight 1394.0 Computed	1394.0	85.7	119459
Unusable Fuel (13-1/3 pints)	10.0	103.0	1030
Standard Empty Weight	1404.0	85.8	120489
Optional Equipment	100.6	107.3	10798
Licensed Empty Weight	1504.6	87.3	131287

*Empty weight is defined as dry empty weight (including paint and hydraulic fluid) plus 1.8 lbs undrainable engine oil.

AIRPLANE USEFUL LOAD

$$(\text{Gross Weight}) - (\text{Licensed Empty Weight}) = \text{Useful Load}$$

Normal Category: (2450 lbs) - 1504.6 lbs = 945.4 lbs

Utility Category: (1950 lbs) - 1504.6 lbs = 445.4 lbs

THIS LICENSED EMPTY WEIGHT, C. G. AND USEFUL LOAD FOR THE AIRPLANE AS DELIVERED FROM THE FACTORY. REFER TO APPROPRIATE AIRCRAFT RECORD WHEN ALTERATIONS HAVE BEEN MADE.

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C. G. RANGE AND WEIGHT INSTRUCTIONS

1. Add the weight of all items to be loaded to the licensed empty weight.
2. Use the loading graph to determine the moment of all items to be carried in the airplane.
3. Add the moment of all items to be loaded to the licensed empty weight moment.
4. Divide the total moment by the total weight to determine the C.G. location.
5. By using the figures of Item 1 and Item 4, locate a point on the C.G. range and weight graph. If the point falls within the C.G. envelope, the loading meets the weight and balance requirements.

SAMPLE LOADING PROBLEM (Normal Category)

	Weight (Lbs)	Arm Aft Datum (Inches)	Moment (In-Lbs)
Licensed Empty Weight	1504.6	87.3	131287
Oil (8 quarts)	15	27.5	413
Pilot and Front Passenger	340	80.5	27370
Passengers, Aft* (Rear Seat)	340	118.1	40154
Fuel (48 Gal. Maximum)	250.4	95.0	23788
Baggage*		142.8	
Total Loaded Airplane	2450.0	91.0	223012

The center of gravity (C.G.) of this sample loading problem is at **91.0** inches aft of the datum line. Locate this point (**91.0**) on the C.G. range and weight graph. Since this point falls within the weight - C.G. envelope, this loading meets the weight and balance requirements.

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRPLANE IS LOADED PROPERLY.

*Utility Category Operation - No baggage or aft passengers allowed.

EQUIPMENT LIST

The following is a list of equipment which may be installed in the PA-28-180. Items marked with an "X" are items installed when the airplane was delivered by the manufacturer.

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	A. Propeller and Propeller Accessories				
X	Propeller, Sensenich 76EM8S5-0-60 Piper Spec. PS50077-8	39.2	3.8	149	TC P4EA
X	Spinner and Attachment Plates Piper Dwg. 65803, 65804, 65805	4.5	3.4	15	TC 2A13

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
B. Engine and Engine Accessories					
X	Engine - Lycoming Model 0-360-A4A Piper Dwg. 62941-14 & -15	288.9	21.1	6096	TC P286
X	Fuel Pump, Electric Auxiliary, Bendix Model 478360	1.8	36.8	66	TC 2A13
X	Fuel Pump, Engine Driven, Lycoming Dwg. No. 73297, 74082, 75148 or 75246	1.7	36.3	62	TC P286
X	Oil Cooler, Piper Dwg. 18622 Harrison *C-8526250	1.9	41.3	78	TC 2A13
X	Air Filter, Fram Model CA 161 PL or Purolator AFP-2	.9	29.5	27	TC 2A13
X	Alternator, 60 Amp, Chrysler No. 2642997 Piper Dwg. 99945-0	12.5	14.0	175	TC 2A13
X	Starter - Lycoming 76211 (Prestolite MZ4206)	* 18.0	14.5	261	TC P286
X	Oil Filter - Lycoming No. 75528 (AC *OF5578770)**	3.3	35.5	117	TC 2A13
X	Oil Filter - Lycoming *LW-13743 (Champion *CH-48110)**	2.8	35.5	99	TC 2A13

*Included in Engine Weight.

**Serial nos. 7505001 and up

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
C. Landing Gear and Brakes					
X	Two Main Wheel Assemblies Piper Dwg. 63370-0 & -1	32.3	109.6	3540	TC 2A13
	(a) Cleveland Aircraft Products Wheel Assembly No. 40-86 Brake Assembly No. 30-55				
X	(b) Two Main 4-Ply Rating Tires 6.00-6 with Regular Tubes				
	One Nose Wheel 6.00-6	12.8	31.0	397	TC 2A13
	(a) Cleveland Aircraft Products Wheel Assembly No. 40-76B (Less Brake Drum)				
	(b) One Nose Wheel 4-Ply Rating Tire 6.00-6 with Regular Tube				

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
D. Electrical Equipment					
X	Stall Warning Device, Safe Flight Instrument Corporation No. C52207-4	.2	80.2	16	TSO C54
X	Voltage Regulator, Wico Electric No. X-16300B	.9	51.9	47	TC 2A13
	Battery 12V, 25 A.H., Rebat Model S-25	21.9	168.0	3679	TC 2A13
X	Overvoltage Relay, Wico Electric No. X16799	.5	55.4	28	TC 2A13
X	Annunciator Lights *	.9	55.5	50	TC 2A13

*Serial nos. 7505001 and up

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CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
E. Instruments					
☒	Compass - Piper Dwg. 67462	.9	59.9	54	TSO C7c
	Airspeed Indicator, Piper Dwg. 63205-2	.6	61.8	37	TSO C2b
☒	Tachometer, Piper Dwg. 62177-3	.7	61.2	43	TC 2A13
☒	Altimeter, Piper PS50008-2 or -3	1.0	60.9	61	TSO C10b
☒	Engine Cluster, Piper Dwg. 95241-4	.8	62.4	50	TC 2A13
	Engine Cluster, Piper Dwg. 95241-2	.8	62.4	50	TC 2A13

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	F. Miscellaneous				
X	Forward Seat Belts (2) .75 lbs. each Piper Spec. PS50039-4-2A	1.5	81.9	123	TSO C22
X	Inertia Safety Belts (2) 0.75 lbs. each Piper Spec. PS50039-4-17	1.5	119.6	179	TC 2A13
X	Rear Seat Belts (2) .70 lbs. each Piper Spec. PS50039-4-3	1.4	123.0	172	TSO C22
	Rear Seats (2) Piper Dwg. 76170	22.8	124.2	2832	TC 2A13
	Flight Manual	2.6	--	--	TC 2A13
X	Tow Bar, Piper Dwg. 99458	1.3	161.8	210	TC 2A13
X	Toe Brakes (Dual) Piper Dwg. 63473	11.0	49.6	546	TC 2A13

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
G. Engine and Engine Accessories (Optional Equipment)					
_____	Vacuum Pump, Airborne Mfg. Co., Model No. 10-113A1, 113A5, or 200cc and Drive	5.0	32.0	160	TC 2A13
_____	Oil Filter - Lycoming No. 75528 (AC *OF5578770) *	3.3	35.5	117	TC 2A13
_____	Oil Filter - Lycoming *LW-13743 (Champion *CH-48110) *	2.8	35.5	99	TC 2A13
_____	Vacuum Regulator, Airborne * Mfg. Co., *133A4	.6	52.0	31	TC 2A13
_____	X Vacuum Filter, Airborne Mfg. Co., *1J7-1 Piper Dwg. 66673	.3	52.0	16	TC 2A13
_____	X Vacuum Pump, Airborne Mfg. Co., Model 211cc and Drive, PAC 79399-0	3.2	32.0	103	TC 2A13
_____	Low Vacuum Annunciator Light **	Neglect			TC 2A13
_____	X Vacuum Regulator, Airborne ** Mfg. Co. * 2H3-19	.5	52.0	26	TC 2A13

*Serial nos. 7405001 through 7405290

**Serial nos. 7505001 and up

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
H. Electrical Equipment (Optional Equipment)					
X	Rotating Beacon, Grimes • 40-0101-15-12	1.5	263.4	395	TC 2A13
X	Landing Light, G.E. Model 4509	.5	13.1	7	TC 2A13
X	Navigation Lights (2) Grimes Model A1285 (Red and Green)	.4	106.6	43	TSO C30b
X	Navigation Light (Rear) (1) Grimes Model 2064 (white)	.2	281.0	56	TSO C30b
X	Battery 12V, 35 A.H., Rebat R-35 (Weight 27.2 lbs.)	5.3	* 168.0	890	TC 2A13
X	Cabin Light, Piper Dwgs. 66632-0 & 95229-0	.3	99.0	30	TC 2A13
X	Cabin Speaker SB-15052 or 6EU 1937, Quincy Speaker Co., Oakton, Indiana	.8	99.0	79	TC 2A13
X	Auxiliary Power Receptacle, Piper Dwg. 65647	2.7	178.5	482	TC 2A13
X	External Power Cable 62355-2	4.6	142.8	657	TC 2A13
	Piper Pitch Trim, Piper Dwg. 67498-0	4.3	155.3	668	TC 2A13
X	Heated Pitot Head Piper Dwg. 69041-5	.4	100.0	40	TC 2A13

*Weight and moment difference between standard and optional equipment.

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
H. Electrical Equipment (Optional Equipment) (cont)					
Red Strobe Light, Whelen Engineering Co. Piper Dwg. 99033					
_____	Power Supply, Whelen Model HS • A4-12A-14 with Fin Light only	2.3	198.0	455	TC 2A13
_____	Light (Fin Tip)	.4	263.4	105	TC 2A13
_____	Cable	.4	230.7	92	TC 2A13
Red/White Strobe Light, Whelen Engineering Co.					
_____	Power Supply, Whelen Model HD, T3	3.0	198.0	594	TC 2A13
_____	Light (Fin Tip)	.4	263.4	105	TC 2A13
_____	Cable	.4	230.7	92	TC 2A13
_____	Lights (Wing Tip) (2)	.3	106.6	32	TSO C30b
_____	Cables	2.0	115.6	231	TC 2A13

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
I. Instruments (Optional Equipment)					
X	Suction Gauge, Piper Dwg. 99480-0 or -2	.5	62.2	31	TC 2A13
X	Vertical Speed, Piper Dwg. 99010-2, -4 or -5	1.0	60.9	61	TSO C8b
X	Attitude Gyro, Piper Dwg. 99002-2, -3, -4 or -5	2.2	59.4	131	TSO C4c
X	Directional Gyro, Piper Dwg. 99003-2, -3, -4 or -5	2.6	59.7	155	TSO C5c
X	Air Temperature Gauge, Piper Dwg. 79316	.2	72.6	15	TC 2A13
X	Clock, Piper Dwg. 99478	.4	62.4	25	TC 2A13
X	Tru-Speed Indicator, Piper Dwg. 62143-2 or -13	(same as Standard Equipment)			TC 2A13
X	Turn and Slip Indicator, Piper PS50030-2 or -3	2.6	59.7	155	TSO C3b
X	Manifold Pressure Gauge, Piper PS50031-3 or -4	.9	60.8	55	TSO C45
	Exhaust Gas Temperature, Piper Dwg. 99026	.7	55.4	39	TC 2A13
	Encoding Altimeter Piper PS50008-6 or -7	* .9	60.3	54	TSO C10b C88

*Weight and moment difference between standard and optional equipment.

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
J. Autopilots (Optional Equipment)					
	AutoControl III *				
_____	Roll Servo, *1C363-1-183R	2.5	122.2	306	STC SA1406SW
_____	Console, *1C338 (thru S/N 9999)	1.2	60.1	72	STC SA1406SW
_____	Cables	.7	95.5	67	STC SA1406SW
_____	Attitude Gyro, *52D66	2.3	59.4	137	STC SA1406SW
_____	Directional Gyro, *52D54	3.2	59.0	189	STC SA1406SW
_____	Omni Coupler, *1C388	.9	59.3	53	STC SA1406SW
	AutoFlite II				
_____	Roll Servo, *1C363-1-183R	2.5	122.2	306	STC SA1406SW
_____	Cable	.7	93.4	65	STC SA1406SW
_____	Panel Unit, *52D75-3 or -4	2.4	59.4	143	STC SA1406SW
	AutoControl III B **				
_____	Roll Servo *1C363-1-183R	2.5	122.2	306	STC SA1406SW
_____	Console, *1C338 (S/N 10000 & up)	1.0	60.1	60	STC SA1406SW
_____	Cables	.5	95.5	48	STC SA1406SW
_____	Attitude Gyro, *52D66	2.7	59.4	160	STC SA1406SW
_____	Directional Gyro, *52D54	2.9	59.0	171	STC SA1406SW
_____	Omni Coupler, *1C388	1.0	59.3	59	STC SA1406SW

*Serial nos. 7405001 through 7405200

**Serial nos. 7505001 and up

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K. Radio Equipment (Optional Equipment)					
_____	Narco Mark 16 (VHF Comm/Nav) *				
_____	Transceiver, Single	7.5	56.9	427	TC 2A13
_____	Transceiver, Dual	15.0	56.9	854	TC 2A13
_____	Narco VOA-50M Omni Converter *	2.1	59.9	126	TC 2A13
_____	Narco VOA-40M Omni Converter *	1.9	59.9	114	TC 2A13
_____	Narco VOA-40 Omni Converter *	1.9	59.9	114	TC 2A13
_____	Narco Comm 10A VHF Transceiver	3.9	57.4	227	TC 2A13
_____	Narco Comm 11A VHF Transceiver	3.6	57.4	207	TC 2A13
_____	Narco Dual Comm 11A VHF Transceiver	7.1	57.4	408	TC 2A13
_____	Narco Nav 10 VHF Receiver	1.9	58.6	111	TC 2A13
_____	Narco Nav 11 VHF Receiver	2.8	58.6	164	TC 2A13
_____	Narco Nav 12 VHF Receiver	3.4	58.6	199	TC 2A13
_____	Narco Dual Nav 11 VHF Receiver	5.6	58.6	328	TC 2A13
_____	King KX-175 () VHF Transceiver	9.4	56.6	532	TC 2A13
_____	King KN-73 Glide Slope Receiver	3.2	184.3	590	TC 2 13
_____	King KN-77 VOR/LOC Converter	3.6	183.6	661	TC 2A13
_____	King KNI-520 VOR/ILS Indicator	1.7	60.5	103	TC 2A13
_____	King KX-175 () VHF Transceiver (2nd)	8.6	56.6	487	TC 2A13
_____	King KN-77 VOR/LOC Converter	4.2	183.6	771	TC 2A13
_____	King KNI-520 VOR/ILS Indicator	1.7	60.5	103	TC 2A13

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K. Radio Equipment (Optional Equipment) (cont)					
	Narco CP-25B/125 Selector Panel *	1.2	55.0	66	TC 2A13
	Narco MBT-12-R Marker Beacon	3.1	69.1	214	TC 2A13
	Narco Comm 110*	3.0	57.4	172	TC 2A13
	Narco Comm 111	3.0	57.4	172	TC 2A13
	Narco Nav 110*	1.7	58.6	100	TC 2A13
	Narco Nav 111	2.5	58.6	147	TC 2A13
	Narco Nav 112	3.3	58.6	193	TC 2A13
King KX-170/175 () (VHF Comm/Nav)					
X	Transceiver, Single	7.5	56.6	425	TC 2A13
X	Transceiver, Dual	15.0	56.6	849	TC 2A13
X	King KI-201 () VOR/LOC Ind.	2.5	59.6	149	TC 2A13
X	King Dual KI-201 () VOR/LOC Ind.	5.0	59.9	300	TC 2A13
X	King KI-214 () VOR/LOC/GS Ind.	3.3	59.9	198	TC 2A13
X	Nav Receiving Antenna	.5	265.0	133	TC 2A13
X	Cable, Nav Antenna	.9	157.0	141	TC 2A13
X	*1 VHF Comm Antenna	.3	157.8	47	TC 2A13
X	Cable, Antenna *1 VHF	.4	103.4	41	TC 2A13
X	*2 VHF Comm Antenna	.3	192.8	58	TC 2A13
X	Cable, Antenna *2 VHF	.5	120.9	60	TC 2A13

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K. Radio Equipment (Optional Equipment) (cont)					
Anti Static Kit					
_____	1 VHF Comm Antenna	1.0	160.8	161	TC 2A13
_____	Cable • 1 VHF Antenna	0.4	103.4	41	TC 2A13
_____	* 2 VHF Comm Antenna	1.0	195.8	196	TC 2A13
_____	Cable • 2 VHF Comm Antenna	0.5	120.9	60	TC 2A13
_____	Low Frequency Antenna	0.5	147.5	74	TC 2A13
_____	Static Wicks	—	—	—	TC 2A13
Narco ADF-31*					
_____	Panel Unit	5.0	58.5	293	TC 2A13
_____	Sensor Unit	2.5	162.7	407	TC 2A13
_____	Sensor Cable	2.3	100.6	231	TC 2A13
_____	Sense Antenna and Cable	.4	150.0	60	TC 2A13
Bendix ADF-T-12C* or Bendix ADF-T-12D*					
_____	Receiver	3.5	59.4	208	TC 2A13
_____	Audio Amplifier	.8	52.4	42	TC 2A13
_____	Servo Indicator	1.7	60.9	104	TC 2A13
_____	Loop Antenna	1.3	160.8	209	TC 2A13
_____	Cable, Interconnecting	2.3	108.0	248	TC 2A13
_____	Sense Antenna and Cable	.4	150.0	60	TC 2A13
King KR-85					
_____	Receiver	4.3	59.4	255	TC 2A13
_____	Servo Indicator	1.2	61.3	74	TC 2A13
_____	Loop Antenna	1.3	161.5	210	TC 2A13
_____	Loop Cable	1.8	108.0	194	TC 2A13
_____	Audio Amplifier	.8	51.0	41	TC 2A13
_____	Sense Antenna and Cable	.4	150.0	60	TC 2A13
PM-1 Marker Beaco.					
_____	Receiver	1.1	121.3	133	TC 2A13
_____	Remote Unit	.3	128.4	39	TC 2A13
_____	Cable	.3	80.0	24	TC 2A13
UGR-2A Glide Slope					
_____	Receiver	2.4	173.8	417	TC 2A13
_____	Cable	1.8	128.0	230	TC 2A13
_____	Antenna	.4	87.4	35	TC 2A13
_____	Cable, Antenna	.5	145.0	73	TC 2A13

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
	K. Radio Equipment (Optional Equipment) (cont)				
	Narco AT-50A Transponder Panel Unit	* 3.0	57.3	172	TC 2A13
X	King KT-78 Transponder Panel Unit	3.1	58.1	180	TC 2A13
X	Antenna and Cable	—	—	—	TC 2A13
	King KMA-20 () Audio Panel	2.8	60.2	169	TC 2A13
	Antenna	.5	116.3	58	TC 2A13
	Cable	.4	87.5	35	TC 2A13
	King KN60C DME Receiver	6.8	56.7	386	TC 2A13
	Antenna	.2	107.1	21	TC 2A13
	Cable, Antenna	0.3	80.6	24	TC 2A13
X	Piper Automatic Locator, Piper Dwg. 99890				
X	Transmitter	1.7	236.2	402	TC 2A13
X	Antenna and Cable	.2	224.4	45	TC 2A13
X	Shelf and Access Plate	.3	235.4	71	TC 2A13
	Audio Selector Panel,** Piper Dwg. 99395-0, -2 or -3	.7	61.3	43	TC 2A13
	Microphone (Dynamic) Piper Dwg. 68856-12	.3	64.9	19	TC 2A13
X	Microphone (Carbon), Piper Dwg. 68856-10	.3	64.9	19	TC 2A13
X	Headset, Piper Dwg. 68856-10	.5	60.0	30	TC 2A13

*Weight includes Antenna and Cable.

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K. Radio Equipment (Optional Equipment) (cont)					
_____	King KI-213 VOR/LOC/GS Indicator *	2.5	60.4	151	TC 2A13
_____	King KR-86 ADF *				
_____	Receiver	3.9	59.4	232	TC 2A13
_____	Loop Antenna	1.5	161.5	242	TC 2A13
_____	Loop Cable	1.3	108.0	140	TC 2A13
_____	Audio Amplifier	0.8	51.0	41	TC 2A13
_____	Sense Antenna & Cable	0.4	150.0	60	TC 2A13
_____	King KR-86 ADF (2nd)*				
_____	Receiver	3.9	59.4	232	TC 2A13
_____	Loop Antenna	1.5	150.7	226	TC 2A13
_____	Loop cable	1.3	105.0	137	TC 2A13
_____	Sense antenna & Cable	3.0	147.5	443	TC 2A13
_____	King KN-65 DME *				
_____	Receiver	7.6	201.6	1532	TC 2A13
_____	Antenna	0.2	107.1	21	TC 2A13
_____	Cable, Antenna	0.3	157.1	47	TC 2A13
_____	Indicator	1.0	62.4	62	TC 2A13
_____	King KN-74 R-Nav *				
_____	Computer	3.7	57.6	213	TC 2A13
_____	Cable Assy.	1.0	53.0	53	TC 2A13
_____	Narco Comm 11B VHF Transceiver *	3.9	57.4	224	TC 2A13
_____	Narco Dual Comm 11B VHF * Transceiver	7.8	57.4	448	TC 2A13
_____	Narco Dual Comm 111 VHF * Transceiver	6.0	57.4	344	TC 2A13
_____	Narco Comm 111B VHF * Transceiver	3.9	57.4	224	TC 2A13

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Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
K.	Radio Equipment (Optional Equipment) (cont)				
_____	Narco Dual Comm 111B VHF Transceiver *	7.8	57.4	448	TC 2A13
_____	Narco Nav 14 VHF Receiver *	2.5	57.4	144	TC 2A13
_____	Narco Nav 114 VHF Receiver *	2.5	57.4	144	TC 2A13
_____	Narco UGR-3 Glide Slope *				
_____	Receiver	2.4	173.8	417	TC 2A13
_____	Cable	1.8	128.0	230	TC 2A13
_____	Antenna	0.4	87.4	35	TC 2A13
_____	Cable, Antenna	0.5	145.0	73	TC 2A13
_____	Narco CP-125 Audio Selector Panel *	2.2	55.0	121	TC 2A13
_____	Narco ADF-140 *				
_____	Receiver	2.5	58.3	146	TC 2A13
_____	Servo Indicator	1.3	61.0	79	TC 2A13
_____	Loop Antenna	1.6	162.0	259	TC 2A13
_____	Cable, Loop	0.6	105.5	63	TC 2A13
_____	Sense Antenna and Cable	0.4	147.5	59	TC 2A13
_____	Narco Dual ADF-140 *				
_____	Receivers	5.0	58.3	292	TC 2A13
_____	Dual Needle Indicator	3.5	61.0	214	TC 2A13
_____	Loop Antenna *1	1.6	162.0	259	TC 2A13
_____	Cable, Loop *1	0.6	105.5	63	TC 2A13
_____	Sense Antenna and Cable *1	0.4	143.8	58	TC 2A13
_____	Loop Antenna *2	1.6	150.0	240	TC 2A13
_____	Cable, Loop *2	0.6	93.5	56	TC 2A13
_____	Sense Antenna and Cable *2	3.0	143.8	431	TC 2A13
_____	Remote for Dual Ind.	2.0	185.5	371	TC 2A13
_____	Narco DME-190 *				
_____	Receiver	5.2	61.8	321	TC 2A13
_____	Antenna	0.3	113.9	34	TC 2A13
_____	Cable, Antenna	0.4	85.6	34	TC 2A13
_____	Microphone (Dynamic)* Piper Dwg. 68856-11	0.6	69.9	42	TC 2A13

*Serial nos. 7505001 and up

ISSUED: JUNE 17, 1974

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CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L. Miscellaneous (Optional Equipment)					
_____	Fire Extinguisher, Scott Aviation * 42211-00, Piper Dwg. 76167-2	4.6	71.0	327	TC 2A13
X _____	Assist Step Piper Dwg. 65384-0	1.8	156.0	281	TC 2A13
_____	Inertia Safety Belts (Rear) (2) 0.8 lbs. each Piper Spec. PS50039-4-14	1.6	140.3	224	TC 2A13
X _____	Nose Wheel Fairing Piper Dwg. 65348-2	3.6	20.3	131	TC 2A13
X _____	Main Wheel Fairings Piper Dwg. 65237	7.6	113.6	863	TC 2A13
X _____	Vert. Adj. Front Seats (Left) Piper Dwg. 76340-0	* 6.6	80.7	533	TC 2A13
_____	Vert. Adj. Front Seat (Right) Piper Dwg. 76340-1	* 6.8	80.0	544	TC 2A13
X _____	Super Cabin Sound Proofing Piper Dwg. 79030-3	18.1	86.8	1571	TC 2A13
X _____	Lighter, 12V Universal *200462	.2	62.9	13	TC 2A13
_____	Assist Strap and Coat Hook Piper Dwg. 62353-5	.2	109.5	22	TC 2A13
X _____	Assist Strap, Piper Dwg. 79455	.2	109.5	22	TC 2A13
X _____	Overhead Vent System with Ground Ventilating Blower Piper Dwg. 76304-2	13.2	170.4	2249	TC 2A13
_____	Overhead Vent System Piper Dwg. 76304-0	5.6	157.3	881	TC 2A13

*Weight and moment difference between standard and optional equipment.

CHEROKEE ARCHER

Item	Item	Weight Lbs.	Arm Aft Datum	Moment	Cert. Basis
L. Miscellaneous (Optional Equipment) (cont)					
_____	Alternate Static Source	.4	61.0	24	TC 2A13
	Calibrated Alternate Static Source				
	Placard Required: Yes _____ No _____				
_____	Headrest (2) (Front) Piper Dwg. 99255-3	2.2	94.5	208	TC 2A13
_____	Headrest (2) (Rear) Piper Dwg. 99255-3	2.2	132.1	291	TC 2A13
_____	Air Conditioning Installation 99575-0	67.4	102.8	6929	TC 2A13
_____	Zinc Chromate Finish Piper Dwg. 65665	5.0	158.0	790	TC 2A13
_____	Corrosive Resistant Kit	3.0	106.0	318	TC 2A13

TOTAL OPTIONAL EQUIPMENT 100.6 107.3 10798

EXTERIOR FINISH

Base Color Juneau White
Trim Color Madrid Red
Accent Color Las Vegas Gold

Registration No. Color Red
Type Finish Lacquer

ISSUED: MAY 14, 1973
REVISED: NOVEMBER 6, 1973

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